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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/830,038	07/17/2001	Klaus Hohn	12406-017001	9454
7	590 07/30/2003			
Fish & Richardson			EXAMINER	
225 Franklin Street Boston, MA 02110-2804			DINH, TUAN T	
			ART UNIT	PAPER NUMBER
		2827		

DATE MAILED: 07/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/830,038	HOHN ET AL.			
		Examiner	Art Unit			
		Tuan T Dinh	2827			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1)🖂	Responsive to communication(s) filed on 22 A	April 2003 .				
2a)⊠	This action is FINAL . 2b) Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-28 is/are pending in the application.						
4a) Of the above claim(s) <u>8-26</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7,27 and 28</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)⊠ The proposed drawing correction filed on <u>22 April 2003</u> is: a)⊠ approved b)⊡ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No.					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claim 28 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The specification is silent regarding "said component is an unsoldered component".

As can be seen in figure 1, applicant clearly shows in figure 1 that component (1) mounted to a substrate (7) by solder (3). What does applicant mean by "unsoldered component?"

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7, and 27-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Prior Art (hereafter PA, admitted by applicant) in view of Higgins, III
 S. Patent 5,639,989).

PA discloses a surface mountable radiation emitting and/or radiation sensitive electro optical component (1) as shown in figure 2, particularly a surface-mountable radiation-emitting and/or radiation-sensitive electro-optical component (LED-1), with a plastic housing (14) that includes at least one metallic soldering area (4).

PA does not disclose an anti-solder coating on a surface of the housing.

Higgins does show an anti-solder coating essentially consists of polysiloxane (24, column 6, lines 18-32) coated on a part of die (13) and not covered conductive pad of the die disclosed in figure 1.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to have an anti-solder coating essentially consists of polysiloxane as taught by Higgins to modify the electronic component of PA in order to be shielded, prevent radiation/emission or coupling of EMI from component mounted on a printed circuit board.

Response to Arguments

1. Applicant's arguments filed 04/22/03 have been fully considered but they are not persuasive.

Applicant argues:

Higgins does not suggest or indicate "layer 24" made of polysiloxane and provide an anti-solder coating (a coating surface not be formed by solder).

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Examiner disagrees.

Applicant recites in claim 1, lines 4-5 that "the surface of the plastic housing, except for the metallic soldering area, is at least partially of a surface of the housing covered by an anti-solder coating" Higgins clearly shows in figures 1 and 3 a conformal insulating coating layer (24, column 6, lines 20-21) made of polysiloxane (and the like, column 6, line 32), the polysiloxane coating layer (24) capable of being used as a coating material coated on a surface of a die (12) and not covering the soldering area of the die.

Conclusion

2. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T Dinh whose telephone number is 703-306-5856. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-1341 for regular communications and 703-305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

TD July 24, 2003

DAVID L. TALBOTT SUPERVISORY PATENT EXAMINED TECHNOLOGY CENTER 2800

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